



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2015/830

Issued: May 24, 2017

FORMULA X™ UHP STRIPPER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: Formula X UHP (Ultra High Performance) Stripper Product Number: 503L5

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.
Intended Use: Floor Finish remover concentrate
Uses Advised Against: Other than per labelled instructions.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Amano Pioneer Eclipse Corporation
P.O. Box 909
1 Eclipse Road
Sparta, NC 28675
Telephone: 1-336-372-8080
Email: sds@pioneereclipse.com
Internet: www.pioneereclipse.com

1.4 EMERGENCY TELEPHONE NUMBER

For Chemical Emergency: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

This mixture has been classified according to EC 1272/2008.
Corrosive to Metals - Category 1
Acute toxicity (oral) - Category 4
Acute toxicity (dermal) - Category 4
Acute toxicity (inhalation) - Category 4
Skin Corrosion - Category 1A
Eye Damage - Category 1
Specific Target Organ Toxicity, Single Exposure (Respiratory tract irritation) - Category 3

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):

Hazard Statement(s):
H290 May be corrosive to metals.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary Statement(s):
P260 Do not breathe mist.
P280 Wear protective gloves, eye protection and face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor/physician.



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2.3 OTHER HAZARDS No other hazards are known to the supplier

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	REACH No.	Classification	
					Hazard Class	Hazard Statement(s)*
ethylene glycol monobutyl ether	203-905-0	10 - 30	111-76-2	01- 2119475108- 36	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
3-butoxypropan-2-ol	225-878-4	5 - 10	5131-66-8	01- 2119475527- 28	Eye Irrit 2 Skin Irrit 2	H319 H315
2-aminoethanol	205-483-3	5 - 10	141-43-5	01- 2119486455- 28	Acute Tox 4 Skin Corr 1B STOT SE 3	H302,H312,H332 H314 H335
1-(2-butoxy-1-methylethoxy)-2-propanol	249-951-5	5 - 10	29911-28-2	01- 2119451543- 42	Eye Irrit 2 AquaChm 4	H319 H413
sodium cumenesulfonate	239-854-6	1 - 5	15763-76-5	01- 2119489411- 37	Eye Irrit 2	H319
potassium 4-isopropylbenzenesulphonate	629-764-9	1 - 5	164524-02-1	01- 2119489427- 24	Eye Irrit 2	H319

*See section 16 for the full text of Hazard Statements

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- Eye Contact:** Immediately wash out with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek medical attention immediately.
- Skin Contact:** Immediately wash with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention immediately.
- Inhalation:** If breathing is difficult: Remove to fresh air. Seek medical attention immediately.
- Ingestion:** Call a physician or poison control center immediately. Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Can cause serious eye damage.
- Skin Contact:** Can cause severe burns.
- Inhalation:** Harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.
- Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

In case of fire: use dry chemical, water spray, foam, carbon dioxide

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: CO, CO₂

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but not limited to the above mentioned substances.



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5.3 ADVICE FOR FIRE FIGHTERS

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents. Materials can splatter above 100°C/212°F. Corrosive material.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.
Material spilled on hard surface can present a serious slipping/falling hazard.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep spills and cleaning runoff out of sewers and open bodies of water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Small spills: Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.

Large spills: Keep spectators away. Floors may be slippery; use care to avoid falling. Neutralize spill area. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.

6.4 REFERENCE TO OTHER SECTIONS:

Refer to Section 8 of the SDS - Personal precautions
Refer to Section 7 of the SDS - Precautions in handling and storage
Refer to Section 13 of the SDS - Waste disposal recommendations

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before reuse.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

7.3 SPECIFIC END USE(S): No information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Workplace Exposure Limits:

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
ethylene glycol monobutyl ether	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	-	-	10	49	H,Y, AGS
	DK - At-Vejledning Stoffer og materialier- C.0.1	20	98	-	-	EH
	EU (2000/39/EC)	20	98	50	246	Skin
	NO – Forskrift, best.nr. 704	-	-	10	50	H
	NL - Grensuarde TGG	20	100	50	246	H
	EH40	25	123	50	246	Sk, BMGV

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
2-aminoethanol	ACGIH TLV	3	7.5	6	15	-
	DE (TRGS 900)	-	-	2	5.1	H,Y,Sh
	DK - At-Vejledning Stoffer og materialier- C.0.1	1	2.5	-	-	H
	EU (2006/15/EC)	1	2.5	3	7.6	Skin
	NL - Grensuarde TGG	-	2.5	-	7.6	H
	NO Administrative Norm	1	2.5	-	-	H
	EH40	1	2.5	3	7.6	Skin

**FORMULA X™ UHP STRIPPER****8.2 EXPOSURE CONTROLS**

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended to avoid chemical splashes and mists. Safety glasses or goggles (EN166).

Hand Protection: Chemical resistant gloves are recommended. (EN374).
Protective index 6, Breakthrough time > 480 mins. (E.g. - nitrile gloves, 0.4 mm thickness)
Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances.

Skin Protection: If major exposure is possible, wear suitable protection such as rubber boots, apron, etc.

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator with multi-purpose combination filter. (E.g. - EN 14387- ABEK)

Other information: Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	clear, colorless, liquid
Odor:	No added fragrance. Characteristic odor according to raw materials.
Odor Threshold:	No test data available
pH:	12 - 13
Melting Point/Freezing Point:	< -12°C
Initial boiling point/boiling range:	No test data available
Flash Point:	> 93°C
Evaporation Rate:	± 0.33 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	No test data available
Vapor Density:	No test data available
Relative Density:	± 0.99 kg/L @ 20°C
Solubility:	completely soluble in water
Partition Coefficient (n-octanol/water):	± 0.08 (calculated value)
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	< 10 mPa.s
Explosive Properties:	No test data available
Oxidizing properties:	No test data available

9.2 OTHER INFORMATION

VOC content: ± 42%

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	Stable under normal conditions. Reacts exothermically with acids: release of heat.
10.2 CHEMICAL STABILITY:	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal conditions. Reacts exothermically with acids: release of heat.
10.4 CONDITIONS TO AVOID:	None under normal conditions.



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- 10.5 INCOMPATIBLE MATERIALS:** Acids. Do not mix with other chemicals unless stated on the product label.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS: None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.
- ATE_{mix} (oral) - 500 mg/kg Harmful if swallowed.
 ATE_{mix} (dermal) - 1100 mg/kg Harmful in contact with skin.
 ATE_{mix} (inhalation) - 4.703 mg/l (mist) Harmful if inhaled.

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation- (mg/l)
ethylene glycol monobutyl ether	111-76-2	1300	>2000	guinea pig (1hr), >3.1
2-aminoethanol	141-43-5	1720	1500	rat (4hr), >1.3
propylene glycol monobutyl ether	5131-66-8	5660	> 2000	rat (4hr), >3.5
1-(2-butoxy-1-methlethox)-2-propanol	29911-28-2	4000	> 2000	rat (4hr), 2040 mg/m ³
potassium 4-isopropylbenzene sulphonate	164524-02-1	> 2000	2000	rat (232min), >5
sodium cumenesulfonate	15763-76-5	> 2000	2000	rat (232min), >5

- SKIN CORROSION/IRRITATION:** Classified as Skin Corrosive - Category 1B
Causes severe skin burns.
- SERIOUS EYE DAMAGE/IRRITATION:** Classified as Eye Damage - Category 1
Causes serious eye damage.
- RESPIRATORY OR SKIN SENSITIZATION:** Based on available data, the classification criteria are not met.
- GERM CELL MUTAGENICITY:** Based on available data, the classification criteria are not met.
- CARCINOGENICITY:** Based on available data, the classification criteria are not met.
- REPRODUCTIVE TOXICITY:** Based on available data, the classification criteria are not met.
- STOT-SINGLE EXPOSURE:** Classified as STOT-SE - Category 3
May cause respiratory irritation.
- STOT-REPEATED EXPSURE:** Based on available data, the classification criteria are not met.
- ASPIRATION HAZARD:** Based on available data, the classification criteria are not met.

11.2 POTENTIAL ADVERSE HEALTH EFFECTS

Effects and symptoms related to this mixture, if any, are listed in Section 4.2.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 TOXICITY:** Ecological testing has not been completed on the mixture. Based on criteria 4.1.3 of (EC) 1272/2008 this product is not dangerous to the environment.

Component	CAS #	LC50 fish 1	LC50 - 48 hr	EC50 - 72 hr
ethylene glycol monobutyl ether	111-76-2	820-1490 mg/ml	Daphnia magna, 835 mg/l	algae, 911 mg/l
2-aminoethanol	141-43-5	349 mg/ml	Daphnia magna, 65 mg/l	algae, 15 mg/l
propylene glycol monobutyl ether	5131-66-8	560-1000 mg/ml	Daphnia magna, >1000 mg/l	algae, 560 mg/l
1-(2-butoxy-1-methlethox)-2-propanol	29911-28-2	841 mg/ml	Other aquatic organism, >1000 mg/l	algae, (IC50) >100 mg/l
potassium 4-isopropylbenzene sulphonate	164524-02-1	>100 mg/ml	Daphnia magna, > 100 mg/l	algae, (IC50) >100 mg/l
sodium cumenesulfonate	15763-76-5	>100 mg/ml	Daphnia magna, > 100 mg/l	algae, (IC50) >100 mg/l

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12.2 PERSISTENCE AND DEGRADABILITY: Testing has not been completed on the mixture.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 BIOACCUMULATIVE POTENTIAL:

Mixture	Partition coefficient n-octanol/water (Log)
Eclipse Formula X UHP Stripper	± 0.08 (calculated value)

12.4 MOBILITY IN SOIL: No additional information available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Not applicable

12.6 OTHER ADVERSE EFFECTS: No additional information available.

12.7 ADDITIONAL INFORMATION: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal of this material should be in accordance with local, regional and national regulations.
EU Waste Catalogue: 20 01 29* - detergents containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER: UN3267

14.2 UN PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s. (Mixture; 2-aminoethanol)

14.3 TRANSPORT HAZARD CLASSES: 8

14.4 PACKING GROUP: III

14.5 ENVIRONMENTAL HAZARDS: N/A

14.6 SPECIAL PRECAUTIONS FOR USER:

Package volumes ≤ 5 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

IMDG

Emergency Schedules (EmS): Fire F-A, Spillage S-B

Stowage and Segregation: Category B. Clear of living quarters.

Marine Pollutant: None

ADR/RID

Transport category: 3

Item Number: 80

Classification Code: C7

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation: Labeling of contents

Component	%
non-ionic surfactants	< 5%

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

**FORMULA X™ UHP STRIPPER****SECTION 16: OTHER INFORMATION****REVISION INFORMATION:**

May 24, 2017 - SDS issued

ABBREVIATIONS:

N/A - Not Applicable
N/E - Not Established
N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

H290 May be corrosive to metals
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.
P321 Specific treatment (see ... on this label).
P337+313 If eye irritation persists: Get medical advice/attention.
P234 Keep only in original container.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in a corrosive resistant container with a resistant inner liner.

Classification according to Regulation (EC) No.1272/2008 [CLP]:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008:

Met. Corr. 1	H290	On basis of test data
Acute Tox. 4 (Oral)	H302	Annex VII conversion
Acute Tox. 4 (Dermal)	H312	Annex VII conversion
Acute Tox. 4 (Inhalation)	H332	Calculation method
Skin Corr. 1A	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
STOT SE 3	H335	Calculation method

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation